DMX OPERAPOR

192-CHANNEL LIGHTING CONTROLLER

USER MANUAL

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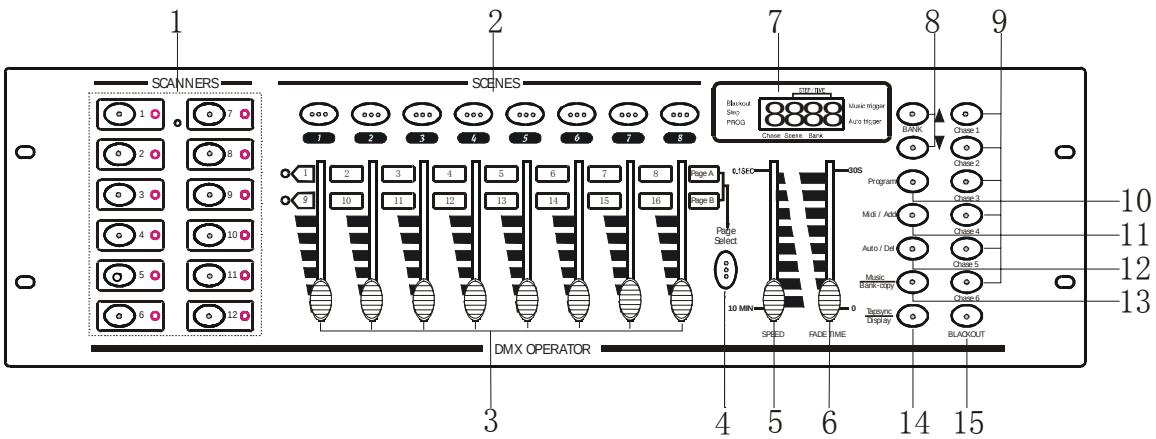
192 CH DMX CONTROLLER USER'S MANUAL

GENERAL DESCRIPTIONS

This digital DMX controller features as 192 DMX channels. 12 scanners assigned with 16 channels each. Totally 30 banks each composed of 8 programmable scenes. 6 editable chases and every single chase can store/run 240 scenes. 8 faders adjusting channel output level. Unit can be set on MANUAL RUN, or AUTO RUN or MUSIC RUN via the built-in microphone, or MIDI RUN to external MIDI signal. The speed and fade time for the running fixture(s) are also settable. The unit uses DMX512 signal to control fixtures.

CONTROLS & FUNCTIONS



1. SCANNER buttons(1-12)

Scanners	Channel	Fade control	LED	Fade control	LED
1	1-16	OFF	OFF	ON	ON
2	17-32	OFF	OFF	ON	ON
3	33-48	OFF	OFF	ON	ON
4	49-64	OFF	OFF	ON	ON
5	65-80	OFF	OFF	ON	ON
6	81-96	OFF	OFF	ON	ON
7	97-112	OFF	OFF	ON	ON
8	113-128	OFF	OFF	ON	ON
9	129-144	OFF	OFF	ON	ON
10	145-160	OFF	OFF	ON	ON
11	10-176	OFF	OFF	ON	ON
12	177-192	OFF	OFF	ON	ON

Press desired SCANNER button, corresponding LED will lit, and assigned 16 channels' output levels are ready to be adjusted. When scenes are running, if channel slider is positioned all the way down, channel output level is controlled by programmed setting, if channel slider is not positioned all the way down, channel output level is controlled by the channel slider.

2. SCENE buttons(1-8): Press to select or deselect a scene.

3. CHANNEL sliders(1-8): Adjust the channel output level from 0 to 255, or intensity from 0% to 100%.

4. Page Select button: Press to switch between pageA(contains CH1-CH8) and pageB(contains CH9-CH16).

5. SPEED slider: Adjust running speed of scenes(or steps) in range of 0.1sec to 10minutes/scene (or step).

6. FADE TIME slider: Adjust fade time in range of 0-30s. Fade time is the amount of time assigned to behave the changing between two scenes(or steps). Such as the time it takes for a light beam to move from one position to another position, or for dimmer to fade in or fade out.

7. LCD display:

a) **First digit displays the current chase#.**
b) **Second digit displays the current scene's number.**
c) **Third and fourth digits display the current bank's number.**
d) **The last 3 digits may also display the value of channel output level or number of step or fade time value or speed value in specific mode.**
e) **In AUTO RUN mode, a lit LED (next to "Auto Trigger") indicates the operation.**
f) **In MUSIC RUN mode, a lit LED (next to "Music Trigger") indicates the operation.**
g) **In BLACKOUT mode, a blinking LED (next to "Blackout") indicates the operation.**
h) **In PROGRAM mode, a blinking LED (next to "PROG") indicates the operation.**

8. BANK ▲ (or ▼) button: Scroll through Bank1 to Bank30 at one bank per pressing.

9. Chase button: Press to select or deselect a chase.

10.Program button: Press and hold Program button till corresponding LED blinks will enter PROGRAM mode. Press and hold PROGRAM button till corresponding LED extinguishes will exit PROGRAM mode.

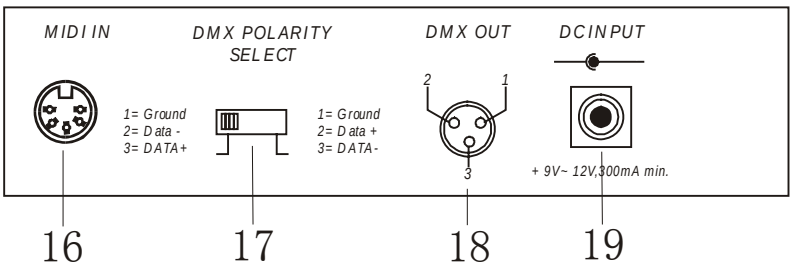
11.Midi/Add button: Activate/Exit MIDI operation. Or execute other functions by proper operation.

12.Auto/Del button: Activate/Exit AUTO RUN mode. Or execute other functions by proper operation.

13.Music/Bank-copy: Activate/exit MUSIC RUN mode. Or execute other functions by proper operation.

14.Tapsync/Display button: In AUTO RUN mode, set the running speed of scene. Or change value type in LCD display in specific mode.

15.BLACKOUT button: Turn off all channel outputs.



16.MIDI IN: Use to receive MIDI control signal.

17.DMX POLARITY SELECT: Select the polarity of DMX output.

18.DMX OUT: connect to the first fixture controlled and output DMX control signal.

19.DC INPUT: Attach to the AC-DC adapter.

IMPORTANT

*For operation of **EDIT SCANNER/SCENE/BANK** and **MAKE/EDIT CHASE**, first enter **PROGRAM** mode by pressing and hold **Program** button till appropriate LED blinks, which indicates it is in **PROGRAM** mode. To store the setting and exit **PROGRAM** mode, press and hold **Program** button till the appropriate LED extinguishes.*

*For easy programming, **SPEED** and **FADE TIME** should be set to minimum levels. For **SPEED** slider, it should be all the way up. For **FADE TIME** slider, it should be all the way down.*

EDIT SCANNER/SCENE/BANK

1. COPY A SCANNER

I. If a scanner (A) is set, press and hold the corresponding SCANNER (A) button (LED should lit).

II. At the same time, press another SCANNER (B) button (LED should lit), then release all buttons.

2. POGRAM A SCENE

I. Press a SCANNER button to select DMX fixture(s). Each scanner is assigned with 16 channels. You may also group several DMX fixtures in one scanner.
II. Adjust channel sliders to set desired output level for each channel. Use Page Select button to switch between Page A (contains CH1-CH8) and Page B (contains CH9-CH16) to make settings.
III. Then exit setting of this scanner by press the SCANNER button again (the LED will extinguish).
IV. Repeat step I, II, III to set remaining fixtures assigned in other scanners.
V. Select desired bank using BANK ▲ (or ▼) button.
VI. While press and hold MIDI/ADD button, press SCENE button of the scene in which to store the channel settings, the LCD display and all LEDS will flash. Then release buttons.

3. EDIT A SCENE
I. Use BANK ▲ (or ▼) button to select a bank in which the desired scene is stored.
II. Press the corresponding SCENE button of the scene to be edited.
III. Edit level settings in the scene to meet the requirements you need. (follow up PROGRAM A SCENE).

4. COPY A SCENE
I. Use BANK ▲ (or ▼) button to select a bank (A) in which the desired scene (B) is stored.
II. Press the corresponding SCENE button of the scene (B) to be copied.
III. Use BANK ▲ (or ▼) button to select another bank (C) to copy scene (B) into.
IV. While press and hold MIDI/ADD button, press the SCENE button of scene (D) as you like. Release buttons and the display and LCD display and all LEDS will flash. Now, scene (D) has the exact same level settings as scene (B) except that scene (D) is stored in bank (C).

5. DELETE A SCENE (All level settings incorporated with this scene will be set to 0)
I. Use BANK ▲ (or ▼) button to select a bank in which the desired scene is stored.
II. While Press and hold AUTO/DEL button, press the corresponding SCENE button of which scene to be deleted. When LCD display and all LEDs flash, release buttons.

6. ERASE ALL SCENES (All level settings stored in the device will be set to 0)
While press PROGRAM button and BANK ▼ button together, turning power off. Then turn on the power again. After the LCD display and LEDs flash, release buttons.

7. COPY A BANK
I. Use BANK ▲ (or ▼) button to select a bank (A) which you want to copy.
II. Press MIDI/ADD button.
III. Select another bank (B) to copy into by using BANK ▲ (or ▼) button.
IV. Press MUSIC/BANK COPY button, the LCD display and all LEDs will flash.

8. DELETE A BANK
I. Use BANK ▲ (or ▼) button to select a bank which you want to delete.
II. Press AUTO/DEL button and MUSIC/BANK COPY button together, after the LCD display and all LEDs flash then release buttons.

MAKE/EDIT CHASE

1. MAKE A CHASE.
I. Choose any chase #1-6 to be programmed.
II. Select the desired scene from any bank.
III. Press the MIDI/ADD button. LCD display and all LEDs will flash.
NOTE: Scenes are to run in the order that they are programmed into the chase.
IV. Repeat step II and III as often as you want until the chase is complete. You can program up to 240

scenes in one chase.

2. COPY A BANK TO A CHASE

I. Use BANK ▲（or ▼）button to select a bank (A) which you want to copy.

II. Select the chase into which you want to copy by pressing CHASE button #1-6.

III. Press and hold MUSIC/BANK COPY button + MIDI/ADD button together. After LCD display and all LEDs flash, then release buttons.

3. ADD A STEP IN A CHASE

For example, adding a new step after step10 in chase4 (chase4 should have step10 set already)should be operated as follows:

I. Select chase by pressing CHASE button 4. The LCD will display the current step by means of chase# + scene# +bank# (like "4101", the scene1 in bank1, and current chase# is chase4).

II. Press TAP SYNC/DISPLAY button, the LCD shows the current chase# + step# (like "4030", the thirtieth step of chase4).

III. Use BANK button ▲（or ▼） to scroll through chase to the step10 (LCD displays as "4010")

IV. Press MIDI/ADD button. The display will show "4011" (step11 in chase4).

V. Press TAP SYNC/DISPLAY button one more time, the LCD will resume to means of chase# + scene# + bank# (like "4101"). Choose the scene you want to activate in this step11 by using BANK ▲（or ▼）button and SCENE button.

VI. Press MIDI/ADD button, after the LCD display and all LEDs flash, the step11 is added into chase, while the previous step11 is current step12, previous step12 is current step13, and son so.

4. DELETE A STEP IN A CHASE

For example, deleting step10 in chase4 (chase4 should have step10 set already) should be operated as follows:

I. Select chase by pressing CHASE button 4. The LCD will display the current step by means of chase# + scene# +bank# (like "4101", the scene1 in bank1, and current chase# is chase4).

II. Press TAP SYNC/DISPLAY button, the LCD shows the current chase# + step# (like "4030", the thirtieth step of chase4).

III. Use BANK▲（or ▼）button to scroll through chase to the step10 (LCD displays as "4010")

IV. Press AUTO/DEL button, after the LCD display and all LEDs flash, the step10 is deleted, while the previous step11 is current step10, previous step12 is current step11, and son so.

5. DELETE A CHASE

I. While press and hold AUTO/DEL button, press the CHASE button of chase you want to delete.

II. After the LCD display and all LEDs flash, the chase is deleted.

6. DELETE ALL CHASES (All scenes still exist)

While press BANK ▼ button + AUTO/DEL button together, turn power off. Then turn on the power again. After LCD display and all LEDs flash, release buttons.

*For the following operations, there is no need to enter **PROGRAM** mode first. Just follow up the instructions below step by step.*

RUN SCENES

1. MANUAL RUN MODE

I. When the power is first turned on, the unit enters MANUAL RUN mode.

II. If in PROGRAM mode, just exit PROGRAM mode by press Program button till the LED besides wording "PROG" extinguishes and it is in MANUAL RUN mode.

III. Be sure that the Auto trigger & MUSIC trigger LEDs are both off.
IV. Select the bank that stores the scenes you wish to run by use BANK ▲（or ▼）button.
V. Press the SCENE button to run the scene you selected.

2.AUTO RUN MODE
I. In this mode, you are to run a bank of programmed scenes in a sequential loop.
II. Press Auto/Del once to activate the AUTO RUN mode.
III. Use the BANK ▲（or ▼）button to select a bank of scenes to run.
IV. Use SPEED and FADE TIME sliders to set running mode of the scenes. The FADE TIME setting should never be slower than the SPEED setting. Or else the whole changing course between scenes will never perform completely.
V. You can change bank on the fly by pressing the BANK ▲（or ▼）button.

3.MUSIC RUN MODE
I. Press the Music/Bank-Copy button till the corresponding LED indicator illuminates.
II. Use the BANK ▲（or ▼）button to select a bank to run, or you may choose control via MIDI signal.
III. Press the MUSIC/BANK COPY button till the corresponding LED indicator goes out will exit this mode.

RUN CHASE

1. MANUAL RUN MODE
I. This function will allow you to manually step through a selected chase.
II. MANUAL RUN mode will override the programmed scene setting. If the fade time is set to off, the chase will run to fade time setting as per the programmed setting.
III. Press and hold the PROGRAM button for 3 seconds to enter PROGRAM mode.
IV. Start a chase by selecting the corresponding CHASE button as you want.
V. Press TAP SYNC/DISPLAY button till the LCD shows the current chase# + step#.
VI. Use BANK ▲（or ▼）button to scroll through the chase. One press, one step forward (for button ▼) or one step backward (fro button ▲) in the chase.
VII. Press and hold the PROGRAM button for 3 seconds again to exit PROGRAM mode.

2.AUTO RUN MODE
I. Press AUTO/DEL once to activate the AUTO RUN mode. The LED beside the button will flash.
II. Choose your desired chase (or chases) by pressing one (or several) CHASE button(s).
III. Use SPEED and FADE TIME sliders to make the desired setting.
IV. You may choose to set the speed by two times tapping on the TAP SYNC/ DISPLAY button. The interval between the two tappings is setting of speed. If tap more than two times, then the interval between the last two tappings is setting of speed. The tap setting will override the slider setting.

3.MUSIC RUN MODE
I. Press the MUSIC/BANK COPY button till the Music trigger LED flashes.
II. Press CHASE button to select a chase to run.

NOTE: When you exit a chase by pressing the CHASE button till the corresponding LED extinguishes, the controller will automatically adopt the scenes stored in the last bank accessed. To stop the running, using the BLACKOUT button (till the Blackout LED blinks), or pressing MUSIC/BANK-COPY button (till the Music trigger LED extinguishes), or pressing AUTO/DEL button (till the Auto trigger LED extinguishes)

MIDI OPERATION

1. MIDI RUN mode

I. Press and hold the MIDI/ADD button. The third and fourth digits in LCD display will blink, which means MIDI mode is activated.

II. Use the BANK ▲（or ▼）button to select the MIDI channel (indicated as the third and fourth digits).

III. Press and hold the MIDI/ADD button one more time till the third and fourth display digits stop blinking will exit MIDI mode.

2. MIDI channel settings

NOTE NUMBER: Receive NOTE NUMBER signals to execute corresponding functions.

BANK	NOTE NUMBER	FUNCTION
BANK1	00	TURN ON/ OFF SCENE1
	01	TURN ON/ OFF SCENE2
	02	TURN ON/ OFF SCENE3
	03	TURN ON/ OFF SCENE4
	04	TURN ON/ OFF SCENE5
	05	TURN ON OFF SCENE6
	06	TURN ON/ OFF SCENE7
	07	TURN ON/ OFF SCENE8
BANK2	08	TURN ON/ OFF SCENE1
	09	TURN ON/ OFF SCENE2
	10	TURN ON/ OFF SCENE3
	⋮	⋮
BANK15	112	TURN ON/ OFF SCENE1
	113	TURN ON/ OFF SCENE2
	114	TURN ON/ OFF SCENE3
	115	TURN ON/ OFF SCENE4
	116	TURN ON/ OFF SCENE5
	117	TURN ON/ OFF SCENE6
	118	TURN ON/ OFF SCENE7
	119	TURN ON/ OFF SCENE8
CHASE	120	TURN ON/ OFFCHASE1
	121	TURN ON/ OFFCHASE1
	122	TURN ON/ OFFCHASE2
	123	TURN ON/ OFFCHASE3
	124	TURN ON/ OFFCHASE5
	125	TURN ON/ OFFCHASE6
	126	BLACKOUT